

Claims Amendments: Version with Markings to Show Changes Made.

1. (amended) A voice coil actuator arm comprising:

a head arm collection including a first head arm, a second head arm and a third head arm;

wherein each member of said head arms of said head arm collection is comprised of:

at least one ground plane formed in said head arm ~~collection member~~; and

a first and a second pair of coplanar, parallel transmission paths essentially parallel to said ground plane interconnecting both a read differential wire pair and a write differential wire pair to a head slider, respectively;

said first parallel transmission path pair interconnects to a disk drive read interface; and

said second parallel transmission path pair interconnects to a disk drive write interface.

3. (Amended) The apparatus of Claim 1, further comprising:

an analog interface interconnecting said first parallel transmission path and said disk read interface, for at least one of said head arm ~~collection members~~; and

said analog interface interconnecting said second parallel transmission path and said disk write interface, for at least one of said head arm ~~collection members~~.

4. (Amended) The apparatus of Claim 1, further comprising:

an analog interface interconnecting said first parallel transmission path and said disk read interface, for each of said head arm ~~collection members~~; and

said analog interface interconnecting said second parallel transmission path and said disk write interface, for each of said head arm ~~collection members~~.

9. (Amended) The method of Claim 8,

wherein said voice coil actuator arm is further comprised of a second head arm; and

said method is further comprised of the steps of:

said second head arm providing electrical interconnection between a third head slider and a third disk drive read interface and a third disk drive write interface ~~as in Claim 6.~~

10. (Amended) The method of Claim 9,

wherein said voice coil actuator arm is further comprised of a third head arm; and
said method is further comprised of the steps of:

said third head arm providing electrical interconnection between a fourth head slider and a fourth disk drive read interface and a fourth disk drive write interface ~~as in Claim 6.~~

17. (Amended) The apparatus of Claim 16, further comprising:

a second head arm ~~as in Claim 15~~ interconnecting a third head slider, a third disk read interface and a third disk write interface.

18. (Amended) The apparatus of Claim 17, further comprising:

a third head arm ~~as in Claim 15~~ interconnecting a fourth head slider, a fourth disk read interface and a fourth disk write interface.

25. (Amended) The method of Claim ~~24~~,

~~wherein said head arm is a product of the process of Claim 2222.~~ further comprising the steps of:

providing a third differential signal path and a fourth differential signal path as essentially parallel, coplanar traces on said head arm traversing an essentially fixed distance parallel to said ground plane as a third differential trace pair and a fourth differential trace pair;

providing connectivity to a second head slider for a second read differential wire pair and for a second write differential wire pair via said third and said fourth differential trace pair, respectively;

providing connection to a second disk drive read interface via said third differential trace pair; and

providing connection to a second disk drive write interface via said fourth differential trace pair.

26. (Amended) The method of Claim ~~25~~,22,

wherein ~~said~~ voice coil actuator arm is ~~further~~ comprised of said head arm and a second head arm; and

said method is further comprised of the steps of:

manufacturing said second head arm to provide electrical interconnection between a third head slider and a third disk drive read interface and a third disk drive write interface ~~as in Claim 23~~.

27. (Amended) The method of Claim 26,

wherein said voice coil actuator arm is further comprised of a third head arm; and

said method is further comprised of the steps of:

manufacturing said third head arm to provide electrical interconnection between a fourth head slider and a fourth disk drive read interface and a fourth disk drive write interface ~~as in Claim 23~~.

31. (New) Said voice coil actuator arm including said head arm, as a product of the process of Claim 24.

Amendments to the Claims (unmarked up version):

1. (amended) A voice coil actuator arm comprising:

a head arm collection including a first head arm, a second head arm and a third head arm;

wherein each of said head arms of said head arm collection is comprised of:

at least one ground plane formed in said head arm; and

a first and a second pair of coplanar, parallel transmission paths essentially parallel to said ground plane interconnecting both a read differential wire pair and a write differential wire pair to a head slider, respectively;

said first parallel transmission path pair interconnects to a disk drive read interface; and

said second parallel transmission path pair interconnects to a disk drive write interface.

3. (Amended) The apparatus of Claim 1, further comprising:

an analog interface interconnecting said first parallel transmission path and said disk read interface, for at least one of said head arms; and

said analog interface interconnecting said second parallel transmission path and said disk write interface, for at least one of said head arms.

4. (Amended) The apparatus of Claim 1, further comprising:

an analog interface interconnecting said first parallel transmission path and said disk read interface, for each of said head arms; and

said analog interface interconnecting said second parallel transmission path and said disk write interface, for each of said head arms.

9. (Amended) The method of Claim 8,

wherein said voice coil actuator arm is further comprised of a second head arm; and

said method is further comprised of the steps of:

said second head arm providing electrical interconnection between a third head slider and a third disk drive read interface and a third disk drive write interface.

10. (Amended) The method of Claim 9,
wherein said voice coil actuator arm is further comprised of a third head arm; and
said method is further comprised of the steps of:
said third head arm providing electrical interconnection between a fourth head slider and a fourth disk drive read interface and a fourth disk drive write interface.

17. (Amended) The apparatus of Claim 16, further comprising:
a second head arm interconnecting a third head slider, a third disk read interface and a third disk write interface.

18. (Amended) The apparatus of Claim 17, further comprising:
a third head arm interconnecting a fourth head slider, a fourth disk read interface and a fourth disk write interface.

25. (Amended) The method of Claim 22, further comprising the steps of:
providing a third differential signal path and a fourth differential signal path as essentially parallel, coplanar traces on said head arm traversing an essentially fixed distance parallel to said ground plane as a third differential trace pair and a fourth differential trace pair;
providing connectivity to a second head slider for a second read differential wire pair and for a second write differential wire pair via said third and said fourth differential trace pair, respectively;
providing connection to a second disk drive read interface via said third differential trace pair; and
providing connection to a second disk drive write interface via said fourth differential trace pair.

26. (Amended) The method of Claim 22,
 wherein a voice coil actuator arm is comprised of said head arm and a second
 head arm; and

 said method is further comprised of the steps of:

 manufacturing said second head arm to provide electrical interconnection between
a third head slider and a third disk drive read interface and a third disk drive write
interface.

27. (Amended) The method of Claim 26,

 wherein said voice coil actuator arm is further comprised of a third head arm; and
 said method is further comprised of the steps of:

 manufacturing said third head arm to provide electrical interconnection between a
fourth head slider and a fourth disk drive read interface and a fourth disk drive write
interface.

31. (New) Said voice coil actuator arm including said head arm, as a product of the
process of Claim 24.